

Name: _____

Class: _____

Date: _____

**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins



Solving Fractional Equations (Quadratic Formula)

| | | |
|---|--|-----|
| 1 | Solve the equation $\frac{1}{x+1} - \frac{6x^2-18}{1-x^2} = 4$. | [3] |
|---|--|-----|

Solving by Completing The Square

| | | |
|---|---|------------|
| 1 | (a) Express $x^2 - 3x - 8$ in the form $(x + a)^2 + b$. (b) Hence, solve the equation $x^2 - 3x - 8 = 0$, giving your answers correct to two decimal places. | [2] [2] |
|---|---|------------|

Sketching

| | | |
|---|--|---|
| 1 | (i) Sketch the graph of $y = -(x - 1)^2 + 4$. Indicate clearly the values of the points where the graph crosses the axes and the turning point on the curve. (ii) Write down the equation of the line of symmetry of the graph $y = -(x - 1)^2 + 4$. (iii) explain why there is no intersection between the line $y = 5$ and $y = -(x - 1)^2 + 4$. |  [3] [1] [1] |
| 2 | (a) Factorise $-x^2 + 5x + 6$. (b) Sketch the graph of $y = -x^2 + 5x + 6$, indicate clearly the x -intercepts and y -intercept. (c) Write down the equation of the line of symmetry. (d) Write down the equation of a horizontal line that intersects the graph of $y = -x^2 + 5x + 6$ at only one point. |  [2] [2] [1] [1] |

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